| POSITION                  | INITIALS | ID NO. | DATE     |
|---------------------------|----------|--------|----------|
| FEE DETERMINATION         | OSMan    |        |          |
| O.I.P.E. CLASSIFIER       |          | 4/3    | 5/23/01  |
| FORMALITY REVIEW          | MB       | 954    | 6/28/01  |
| RESPONSE FORMALITY REVIEW | TRAURA   | 995    | 03-11-02 |
|                           | , yours  | 10.5   |          |

## INDEX OF CLAIMS

| Rejected                     | N Non-elected  |
|------------------------------|----------------|
| = Allowed                    | 1 Interference |
| _ (Through numeral) Canceled | A Appeal       |
|                              | O Objected     |

3

0

|          |          |            | = Allowed                      |  |                                     |          |          |          |          |          | i        |          |          |               |   |   |  |              |  |           |          |          |   |          |               |            |          |          |          |             |          |          |                |  |          |
|----------|----------|------------|--------------------------------|--|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|---------------|---|---|--|--------------|--|-----------|----------|----------|---|----------|---------------|------------|----------|----------|----------|-------------|----------|----------|----------------|--|----------|
|          |          |            | — (Through numeral) Canceled A |  |                                     |          |          |          |          | Α        | 411      |          |          |               |   |   |  |              |  |           |          |          |   |          |               |            |          |          |          |             |          |          |                |  |          |
|          |          |            |                                |  |                                     | ÷        |          |          |          |          | •••••    |          | Res      | stric         | ted   |   |  |              | 0  | •••••     |          | •••••    | • | •••••    | Ob            | jecte      | d        |          |          |             |          |          |                |  |          |
|          |          |            |                                |  |                                     |          |          |          |          |          |          |          |          |               |   |   |  |              |  |           |          |          |   |          |               |            |          |          |          |             |          |          |                |  |          |
| ſc       | iaK      | m          | n Date                         |  |                                     |          |          |          | 7        | Claim    |          |          |          |               |   | Date  | е  |              |  |           |          | Cla      | im                                      |          |               |            | - 1      | Date     | •        |             |          |          |                |  |          |
| F        | Ī        | <u> </u>   | FIE                            | - 1  | T                                   | T        | Т        | T        | Т        | Т        | 1        |          |          | $\overline{}$ | П   | $\Box$  |  |              |  |           | П        | T        |   |          | <u></u>       | Т          | $\top$   | Т        | П        | П           |          | $\Box$   | Т              | П  |          |
| ١,       | _        | 틸          | 10/16                          |  |                                     |          |          |          |          |          |          | _        | Original |               |   | Ш   |  |              |  |           | ı        |          |   | =        | Orlginal      |            |          | -        | - 1      |             |          |          | ı              | - 1  | - 1      |
|          |          | 쥝냥         |                                |  | ı                                   |          | - 1      |          |          |          |          | Final    | Į        |               |   | .   |  |              |  | - 1       | - 1      |          | -                                       | Final    | 5             |            | 1        | -        | - 1      | -           |          |          |                |  |          |
| ۲,       | ١,       | Ğ İ        | 7                              | Н  | +                                   | +        | -+       | $\dashv$ | $\dashv$ | +        | ┪        | +        | 5        | +             | $\vdash$  | Н   |  | 1            | $\neg$   | 寸         | $\dashv$ | -†       | _                                       | _        | 101           | 1          | $\top$   | 十        | 寸        | ┪           | T        | 寸        | 丁              | $\neg$   | П        |
| ⊢        |          |            | 1                              | Н  | $\dashv$                            | -        | $\dashv$ | $\dashv$ | -+       | +        | $\dashv$ | $\vdash$ | 52       | $\overline{}$ | ┢   | Н   | $\dashv$   | $\dashv$     | $\dashv$   | $\dashv$  | -+       | 十        | ᅱ                                       | $\vdash$ | 102           | $\top$     | +        | +        | 7        | ┪           | 寸        | 寸        |                | ┪  | $\neg$   |
| ⊢        | 4        | 2 /<br>3 / | - <del>  Y</del>               | $\vdash$   | -+                                  | $\dashv$ | +        | -        | +        | -        | $\dashv$ | -        | 5        |               | ╁   | Н   | -  | $\dashv$     | $\dashv$   | $\dashv$  | $\dashv$ | -        | $\dashv$                                | $\vdash$ | 103           | +          | ╅        | ╅        | -        | 1           | 十        | 十        | 十              | 寸  |          |
| -  -     | 4        |            | 14                             |  | $\dashv$                            | 4        | -        | -        | +        | +        | -        | -        | 5        | _             | ┝   | Н   | $\dashv$   | $\dashv$     | -  | $\dashv$  | -+       | $\dashv$ | -                                       | -        | 104           | +          |          | -+       | $\dashv$ | $\dashv$    | $\dashv$ | $\dashv$ | $\dashv$       | ╛  | -        |
| ⊢        | 4        | 4/         | 44                             | Н  | $\dashv$                            | -        | -        | $\dashv$ | $\dashv$ | +        | $\dashv$ | $\vdash$ | 5        |               | ⊢   | Н   | $\dashv$   | $\dashv$     |  | ╛         | +        | +        | $\dashv$                                | $\vdash$ | 105           | $\dashv$   | ╅        | ╅        | $\dashv$ | -           | _        | 7        | 十              | 十  | _        |
| ⊢        | 4        | 55         | 14                             | $\vdash$   | -                                   | -        | -        | -        | -        | +        | $\dashv$ | $\vdash$ | -        |               | ┢   |   |  |              | $\dashv$   | +         | -        | $\dashv$ | $\dashv$                                | $\vdash$ | 106           | $\dashv$   | +        | +        |          | +           | $\dashv$ | $\dashv$ | $\dashv$       | 十  |          |
| L        | _        | 6/         | 1                              | Ш  | $\perp$                             | -        | _        |          | _        | 4        | 4        | `-       | 50       |               | ┼   | Н   | $\dashv$   | -            | -  | $\dashv$  |          | $\dashv$ | -                                       | $\vdash$ | 107           | +          | ╅        | +        | -+       | $\dashv$    | $\dashv$ | -+       | ┪              | -  | _        |
| L        | _        | 7/         | 1/                             | Ш  | _                                   | _        | _        | $\dashv$ | _        | _        | _        | <u> </u> | 5        |               | ┞-  | _   | $\dashv$   |              |  | $\dashv$  |          | +        |   |          | 108           | -          | +        | +        | -        | -           | -        | $\dashv$ | $\dashv$       |  |          |
| L        |          | <u></u>    | 1                              | Ш  | $\Box$                              | _        | _        |          | _        | _        | _        | -        | 5        |               | ↓_  | H   | $\dashv$   |              | $\dashv$   |           |          | 4        |   | $\vdash$ | $\rightarrow$ | +          | +        | +        | -        | $\dashv$    | $\dashv$ | $\dashv$ | +              | $\dashv$   |          |
| L        |          | <b>Q</b>   | 44                             | Ш  | Ц                                   | _        | $\dashv$ | _        | _        |          |          | <u> </u> | 5        | _             | <u> </u>  | Ш   | Ш  |              |  | _         |          | -        | 4                                       | $\vdash$ | 109           |            | 4        | +        | $\dashv$ | -+          |          | $\dashv$ | -              |  | _        |
| £        |          | 10)        | 44                             | Ш  | Ц                                   | $\Box$   |          |          | _        | _        | _        | <u> </u> | 6        |               | Ь.  | <u> </u>  |  |              | _  | _         | _        | _        | _                                       | <u> </u> | 110           | +          | 4        | -        | 4        |             | 1        | $\dashv$ | -              |  | _        |
| L        | - 1      | 11         | //                             |  |                                     |          | $\Box$   |          | _        | $\perp$  |          | L        | 6        |               | _   | $oxed{oxed}$  | Ш  |              | _  | _         |          | 4        | _                                       | -        | 111           | 4          | 4        | -        | -        | -           |          | $\dashv$ | -+             | $\dashv$   | _        |
| - E      |          | T2)).      |                                |  | Ш                                   |          |          |          | $\perp$  |          | _]       | $\perp$  | 62       |               | ┖   | _   |  |              | Ц  | $\dashv$  | _        | -        | _                                       | <u> </u> | 112           | 4          | 4        | 4        | $\dashv$ |             |          |          | $\dashv$       |  |          |
| Γ        |          | 13         | 71                             |  |                                     |          |          |          | ╧        |          |          | L        | 6        |               | L   |   |  |              | _  |           | _        | _        | _                                       | -        | 113           | 4          | 4        | 4        | _        |             |          | _        | _              |  |          |
| ъΓ       | ٦        | 14 /       | 77                             |  |                                     |          |          |          |          |          |          | L        | 6        | 4             |   |   |  |              |  |           |          | _        |   |          | 114           |            | _        | _        | _        |             | _1       |          | _              | _  | _        |
| 7        | ۶        | 15         |                                |  |                                     |          |          | $\neg$   |          | П        | $\neg$   |          | 6        | 5             |   |   |  |              |  |           |          | -        |   | _        | 115           |            | $\perp$  | $\perp$  |          |             | _        |          | _              |  |          |
| 1        | ╗        | 16         | 1                              |  |                                     |          |          | $\neg$   |          | T        | $\neg$   | Г        | 60       | 6             | Γ   |   |  |              |  |           |          |          |   | L        | 116           |            |          | $\perp$  |          |             | _        |          | _              | Ш  |          |
| ?        |          | 17         |                                | Г  | П                                   |          |          |          |          | $\neg$   | $\neg$   |          | 6        | 7             |   |   |  |              |  |           |          |          |   |          | 117           | _1         | $\perp$  |          | l        | $\Box$      | $\Box$   |          |                | Ш  | L.       |
| -        |          | 18         |                                |  |                                     |          | $\neg$   | $\neg$   |          | T        | 7        |          | 6        | В             |   |   |  |              |  |           |          |          |   | [        | 118           |            |          |          |          | 1           |          | 1        |                |  |          |
| -        |          | 19         | $\top$                         |  | П                                   |          | $\neg$   |          | 寸        | 寸        | $\neg$   | Г        | 6        | 9             | T   | П   |  |              |  |           |          |          |   |          | 119           |            | П        |          |          |             |          |          |                |  |          |
| -        | -        | 20         | +                              | <del>                                     </del> | Н                                   | _        |          |          | ┪        | 十        | _        |          | 7        | 0             | T   | $\top$  |  |              |  |           |          |          |   |          | 120           | T          | 1        |          |          |             |          | П        | П              | П  |          |
| ⊢        |          |            | +                              | -  | Н                                   | $\dashv$ | $\dashv$ |          | $\dashv$ | -+       | $\dashv$ | ⊢        | 7        |               | +   | ╁╌  |  |              |  |           | $\dashv$ | $\dashv$ | $\dashv$                                | -        | 121           | _          | +        | +        | $\dashv$ | $\dashv$    | $\neg$   | $\dashv$ | $\exists$      | 一  | Г        |
| ⊢        |          | 21         | +                              | $\vdash$   | Н                                   | -        | $\dashv$ |          |          | $\dashv$ | $\dashv$ | $\vdash$ | 7        | _             | ╁   | ┢   | H  | Н            |  | $\dashv$  |          | $\dashv$ | $\dashv$                                | $\vdash$ | 122           | _          | +        | +        |          | $\dashv$    |          | $\dashv$ | 寸              | $\neg$   | Г        |
| -        |          | 22<br>23   | +-                             | ⊢  | $\vdash$                            | -        |          | $\dashv$ | -1       | $\dashv$ | $\dashv$ | $\vdash$ | 7        |               | +   | $\vdash$  | H  |              | -  |           | $\dashv$ | $\dashv$ | $\dashv$                                | $\vdash$ | 123           | 十          | +        | $\dashv$ | _        | _           | $\neg$   | $\dashv$ | $\neg$         | П  |          |
| -        |          | 24         | -                              | -  | Н                                   | $\dashv$ | -        | $\dashv$ |          | -+       | $\dashv$ | $\vdash$ | 7        | _             | ╁   | $\vdash$  | $\vdash$   | $\vdash$     | H  | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$                                | -        | 124           | $\dashv$   | +        | 7        | 一        |             |          | $\dashv$ | $\dashv$       | $\sqcap$   | H        |
| ⊢        | _        |            | -                              | ⊢  | Н                                   |          | $\dashv$ | $\vdash$ |          | $\dashv$ |          | -        | +        | 1             | ╁   | ╁   | ├  | <del> </del> | Н  | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$                                | -        | 125           | +          | +        | $\dashv$ |          | -           | ┪        | $\dashv$ | $\dashv$       | П  | r        |
| ŀ        |          | 25         | -                              | $\vdash$   | Н                                   | $\dashv$ | -        |          | -        | -+       | -        | -        | 7        |               | ╁╌  | ╁   | Н  | $\vdash$     | Н  | $\exists$ |          | $\vdash$ | $\dashv$                                | $\vdash$ | 126           | $\dashv$   | $\dashv$ | -+       | -        | $\dashv$    | -        | $\dashv$ | $\dashv$       | $\vdash$   | H        |
| -        |          | 26         | +                              | ļ  | Н                                   | -        | $\vdash$ |          | -        | -+       |          | -        | 17       |               | +   | ╁   | H  | $\vdash$     | Н  |           | $\dashv$ | $\vdash$ | $\dashv$                                | -        | 127           | -+         | +        | $\dashv$ | ᅱ        | $\dashv$    | $\dashv$ | -        | $\dashv$       | Н  | H        |
| L        |          | 27         | <del> </del>                   | Ļ  | Н                                   |          |          | 4        | 4        | -        |          | H        | _        |               | +-  | ╁   | $\vdash$   |              | Н  | Н         |          | $\vdash$ |   | $\vdash$ | 128           | +          | +        | -        | $\dashv$ |             |          | $\dashv$ | -              | Н  | H        |
| L        |          | 28         | _                              | ┖  | Ш                                   | $\Box$   |          | _        | _        | 4        | _        | $\vdash$ | 7        |               | ╀   | $\vdash$  | _  | _            | H  | Н         |          | $\vdash$ | -                                       | -        | 129           | $\dashv$   | +        | -        | -        | $\dashv$    |          | $\dashv$ | $\dashv$       | Н  | -        |
| L        | _        | 29         | $\perp$                        | 上  | Ш                                   |          |          | _        | _        | 4        | _        | <br>     | 7        | _             | ╄   | ┡   | L  | _            | Щ  | $\Box$    |          | $\vdash$ | 4                                       | -        | +             | -+         | -+       | $\dashv$ |          | ᅴ           | -        | $\dashv$ | $\vdash$       | Н  | ┢        |
| L        | _        | 30         | ┵                              | L  | Ш                                   | $\Box$   |          |          |          | 4        |          | <br> -   | 8        |               | ╀   | ╄   | <u> </u>   |              | Н  | Н         |          | $\dashv$ |   | -        | 130           |            | +        | -        |          | $\dashv$    | _        | -        | $\vdash$       | Н  | -        |
| L        |          | 31         | Ц_                             | L  | Ш                                   | _        |          |          |          | _        | _        | <u> </u> | 8        |               | -   | _   | <u> </u>   | $\vdash$     | Ш  | Н         |          | $\sqcup$ | 4                                       | -        | 131           | -          | -+       |          | -        |             |          |          | $\vdash$       | $\vdash$   | -        |
| L        |          | 32         |                                | 上  | Ш                                   |          |          |          |          | _        |          | $\vdash$ | 8        |               | 丄   | ╄   | _  |              | Щ  | Ш         |          | Н        | _                                       | <u> </u> | 132           | +          | 4        | 4        | $\dashv$ |             | -        | $\dashv$ | $\vdash\vdash$ | $\vdash$   | ⊢        |
| L        |          | 33         |                                | L  | Ш                                   |          |          | Щ        |          |          | _        | $\vdash$ | 8        | _             | ↓_  | ╄   | <u> </u>   |              |  | Ш         |          | Н        | _                                       |          | 133           | -          | -        |          | _        | _           |          | $\dashv$ | $\vdash$       | Н  | -        |
| L        |          | 34         | ١                              | L  |                                     |          |          |          |          | _        |          | $\perp$  | 8        | _             | ╙   | ┞.  |  |              |  |           |          | Ц        | _                                       | -        | 134           | $\dashv$   | 4        | _        | _        |             | $\vdash$ | _        | Н              | Ш  | ⊢        |
| Γ        | 4        | 35         |                                | Г  |                                     |          |          |          |          |          |          | L        | 8        |               | $\perp$   | $oldsymbol{ol}}}}}}}}}}}}}}}}}$ | L  | L            |  | Ш         |          |          |   | _        | 135           | $\dashv$   | 4        | _        |          |             |          | <u></u>  | $\sqcup$       | Ш  | <u> </u> |
| ٦        | •        | 36         | T                              | Π  |                                     |          |          |          |          |          |          | L        | 8        |               |   |   | <u>L</u>   |              | L  | Ш         |          |          | _                                       | L        | 136           | _          | _        | _        |          |             |          |          | Ш              | Ш  | <u> </u> |
|          |          | 37         |                                |  |                                     |          |          |          |          |          |          |          | 8        |               | $oldsymbol{ol}}}}}}}}}}}}}}}}}$ | L   | L  | L_           |  |           |          |          |   | _        | 137           | $\Box$     | _        | _        |          |             |          | $\sqcup$ | Ш              | L  | _        |
|          |          | 38         |                                |  | П                                   |          |          |          |          | T        |          |          | 8        |               |   |   |  | _            |  |           |          |          |   | L        | 138           |            | _        | _        |          |             |          |          |                | Ш  | _        |
| -47      |          | 39         |                                | Ī  | П                                   | •        |          |          |          |          |          |          | 8        | 9             | Ι   |   |  |              |  |           |          |          | _                                       | L        | 139           |            |          |          |          |             |          | Ш        | Ш              | Ш  | <u></u>  |
| 1        |          | 40         |                                |  |                                     |          |          |          | $\Box$   | П        |          | Г        | 9        | 0             | П   | Г   |  |              |  |           |          |          |   |          | 140           |            | - 1      |          |          |             |          |          |                |  | 1        |
| ₹        | _        | 41         | 十                              | †  | Н                                   | H        | Н        | П        | $\Box$   |          | $\dashv$ | F        | 9        | 1             | 1   | T   | T  | Π            | Г  | П         |          | П        | $\neg$                                  |          | 141           |            | $\top$   | ╗        |          |             |          |          |                |  |          |
| H        | $\dashv$ | 42         |                                | +  | H                                   | $\vdash$ | $\vdash$ | H        | $\dashv$ | -+       | $\dashv$ | $\vdash$ | 9        | _             | +   | +   | <del>                                     </del> | <del> </del> | $\vdash$   | H         | ┢        | Н        | $\dashv$                                |          | 142           | $\dashv$   | $\dashv$ | ┪        | $\neg$   |             |          | П        | $\Box$         | П  | Г        |
| F        | -        | 43         | +-                             | $\vdash$   | $\vdash$                            | $\dashv$ | Н        | Н        |          | +        | $\dashv$ | -        | 9        |               | +   | +   | 1  |              | -  | Н         | Н        | H        | $\dashv$                                |          | 143           | $\vdash$   | $\dashv$ | 7        |          | П           |          | П        | $\Box$         | Г  | Г        |
| H        | -        | 44         | +                              | +-   | Н                                   | $\dashv$ | $\vdash$ | Н        | $\dashv$ |          | $\dashv$ | -        |          | 4             | +   | ╁   | $\vdash$   | $\vdash$     | $\vdash$   | Н         | $\vdash$ | $\vdash$ | $\dashv$                                | $\vdash$ | 144           | $\dashv$   | $\dashv$ | ᅥ        |          | _           |          |          | П              | П  | Г        |
| H        | -        | 45         | +                              | 1  | Н                                   | $\vdash$ | Н        | Н        |          |          | $\dashv$ | $\vdash$ | 9        |               | +   | +   | $\vdash$   | -            | <del>                                     </del> | H         | $\vdash$ | H        | $\dashv$                                | $\vdash$ | 145           | $\vdash$   | +        | ᅱ        |          |             | H        | М        | Н              | <del>                                     </del> | Г        |
| F        | -        |            | +                              | +-   | $\vdash$                            | $\vdash$ | Н        | H        | $\vdash$ |          | $\dashv$ | $\vdash$ |          | 6             | +   | ╁   | +  | ├-           | +-   | -         | $\vdash$ | Н        | $\dashv$                                | $\vdash$ | 146           | $\vdash$   | $\dashv$ | -        |          | -           | $\vdash$ | М        | Н              | П  | Т        |
| ſŀ       | •        | 46         | +                              | $\vdash$   | ļ -                                 | Н        | Н        | $\vdash$ |          | $\dashv$ | $\dashv$ | $\vdash$ | 9        |               | +   | +   | -  | $\vdash$     | $\vdash$   | $\vdash$  | -        | Н        | $\dashv$                                | -        | 147           | $\vdash +$ | $\dashv$ | $\dashv$ |          | -           | $\vdash$ | Н        | Н              | $\vdash$   | $\vdash$ |
| ر<br>ح [ |          | 47         | $\bot$                         | ↓_   | Ш                                   | Ш        | ш        | $\vdash$ | Ш        | $\dashv$ | $\dashv$ | ┝        |          |               | +   | +-  | <del> </del>                                     | ⊢            | ├-   | -         | $\vdash$ | Н        | -                                       |          | _             | $\vdash$   | +        | -        |          |             | $\vdash$ | H        | H              | Н  | $\vdash$ |
|          |          | 48         | —                              | <del> </del>                                     | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | Ш        | Щ        | $\vdash$ | <u> </u> | $\sqcup$ | 4        | <u> </u> | 9        |               | +   | +-  | -  | -            | <b>├</b>   | -         | $\vdash$ | H        | $\dashv$                                | $\vdash$ | 148           | $\vdash$   | +        | $\dashv$ | H        | <b> </b> -  | ┝╌       | H        | Н              | Н  | $\vdash$ |
| 7        |          | 49         | $\bot$                         | _  | 1_                                  |          | Щ        | <u> </u> | Ш        | $\dashv$ | _        | $\vdash$ |          | 9             | +   | +   | -  | ⊢            |  |           | -        | Н        | $\dashv$                                | -        | 149<br>150    | $\vdash$   | $\dashv$ | -        |          | <del></del> | H        | H        | $\vdash$       | $\vdash$   | $\vdash$ |
| >=[      |          | 50         |                                | <u> </u>   |                                     | L        | ш        |          |          | 1        |          | L        | Į (      | 00            |   | <u> </u>  | Ц.   | Щ            |  | ш         | Ь_       | ш        |   | L.       | μου           | Щ.         | _        |          | نـــا    | _           | <u> </u> |          |                |  |          |
| •        |          |            |                                |  |                                     |          |          |          |          |          |          |          |          |               |   |   |  |              |  |           |          |          |   |          |               |            |          |          |          |             |          |          |                |  |          |

If more than 150 claims or 10 actions staple additional sheet here

(LEFT INSIDE)